

# **ACTIVE PIXEL CELL USING NEGATIVE TO POSITIVE VOLTAGE SWING TRANSFER TRANSISTOR**

## **Abstract**

A active pixel sensor cell is disclosed that comprises a pinned photodiode. A transfer transistor is placed between the pinned photodiode and an output node, the transfer transistor being a depletion mode N-type MOSFET. A reset transistor is coupled between a high voltage rail  $V_{dd}$  and the output node. Finally, an output transistor has its gate coupled to the output node.